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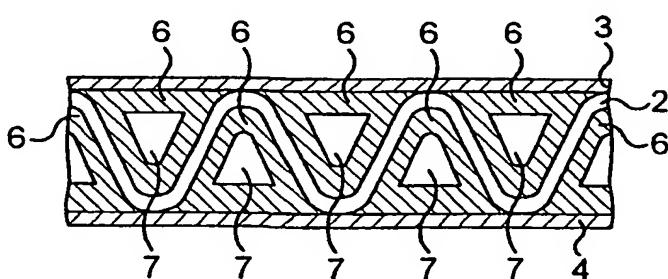
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(54) Title: FLEXIBLE ENERGY ABSORBING MATERIAL AND METHODS OF MANUFACTURE THEREOF



(57) Abstract: A flexible energy absorbing sheet material in which a dilatant material (6) is impregnated into or supported by a resilient carrier (1). The dilatant material remains soft until it is subjected to an impact when its characteristics change rendering it temporarily rigid, the material returning to its normal flexible state after the impact. The carrier can be a spacer fabric, a foam layer or modules or threads of dilatant material contained between a pair of spaced layers. Methods of manufacturing the energy absorbing sheet are also disclosed.

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